

FIG. 1

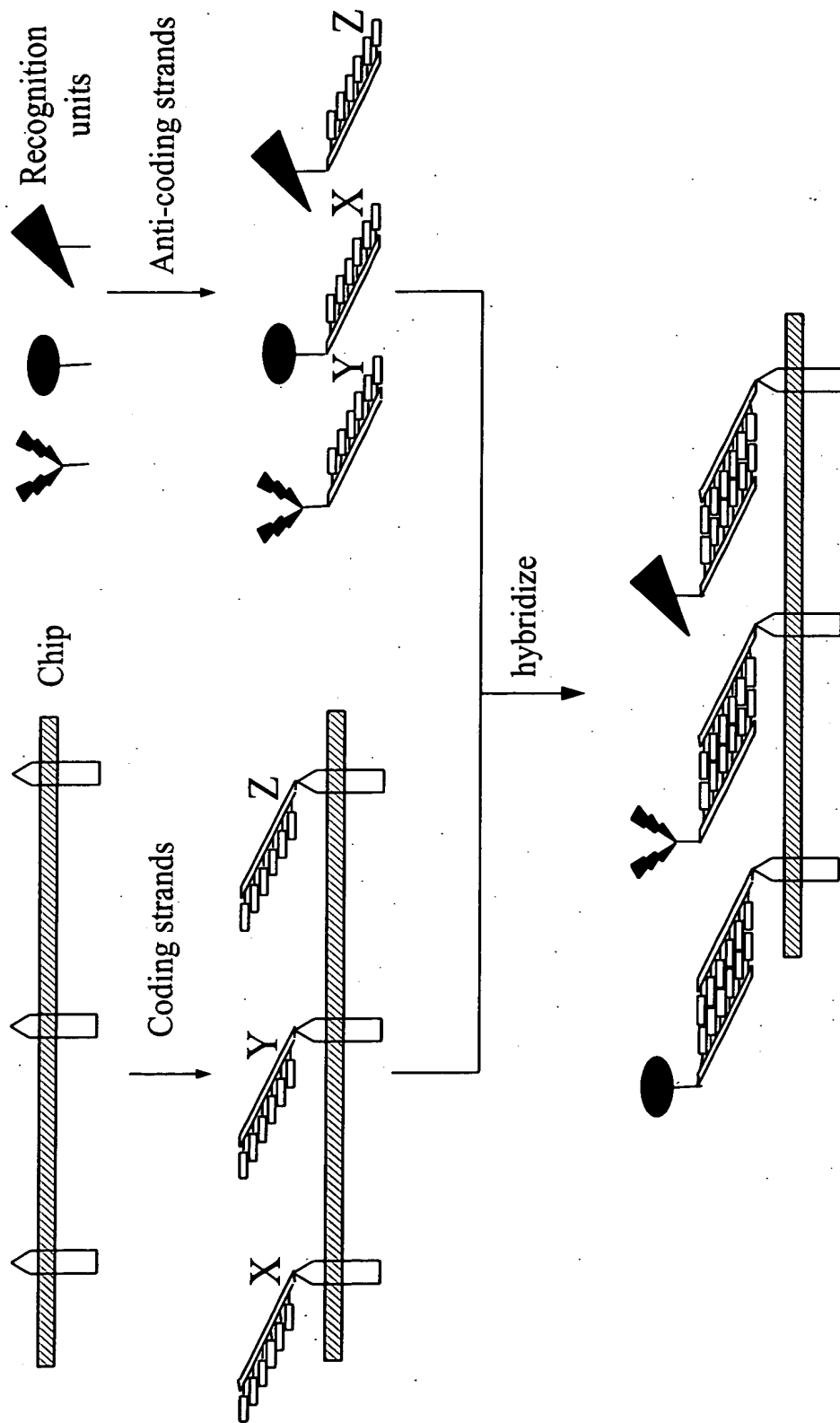
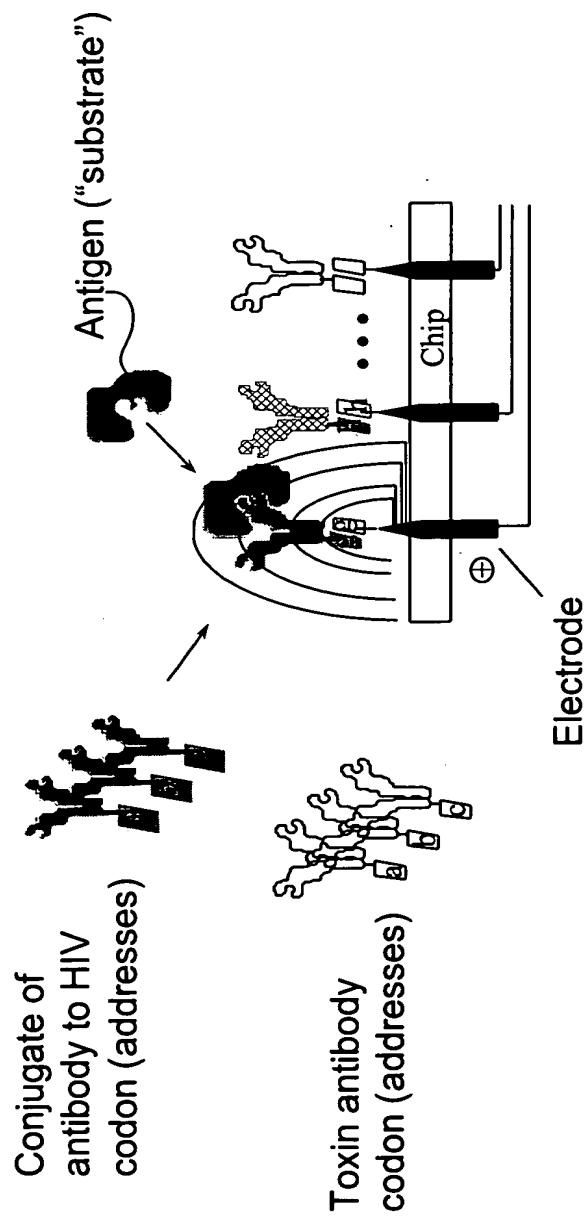
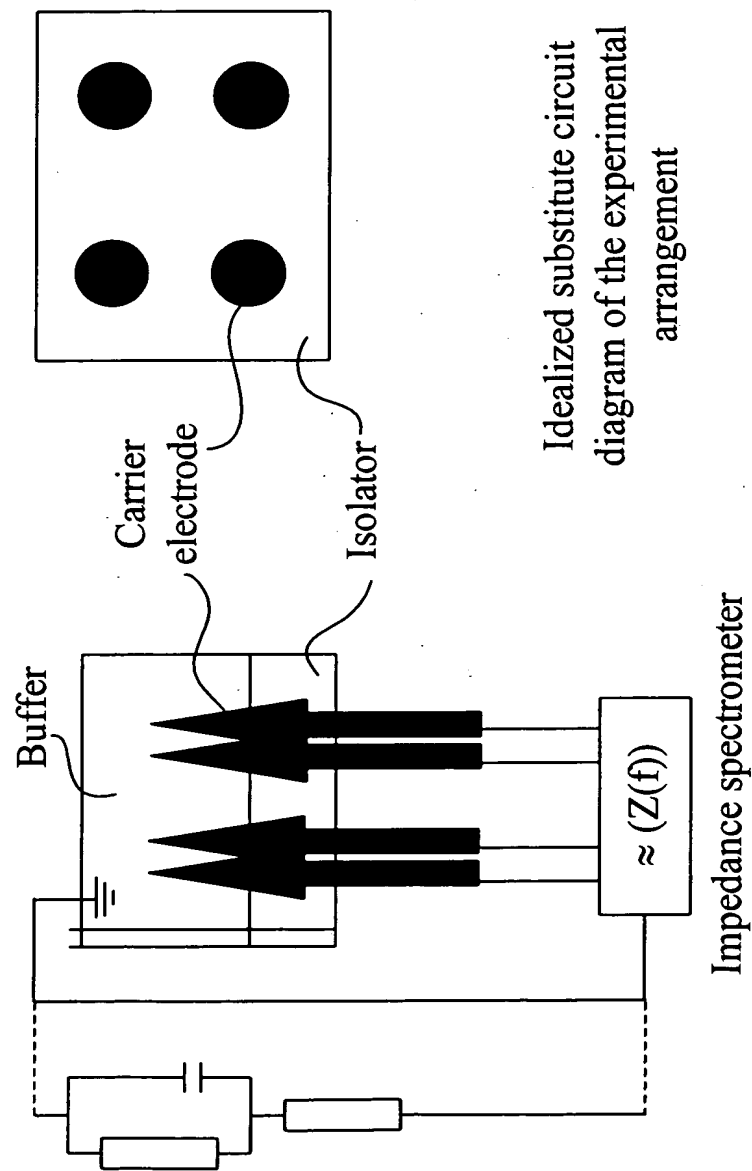


FIG. 2



**FIG. 3**



Idealized substitute circuit  
diagram of the experimental  
arrangement

**FIG. 4**

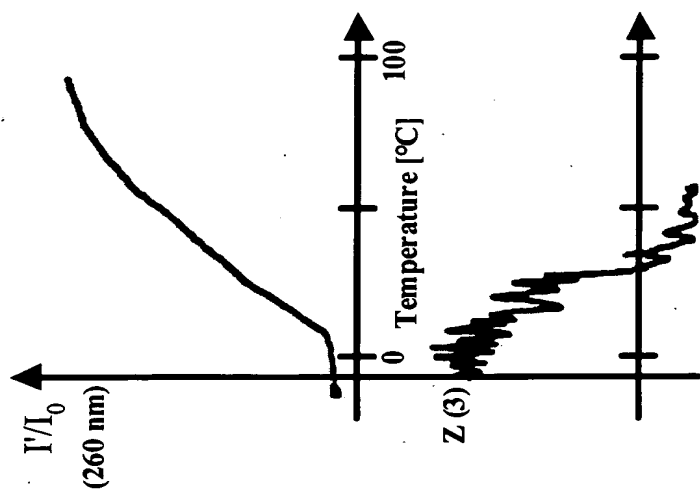
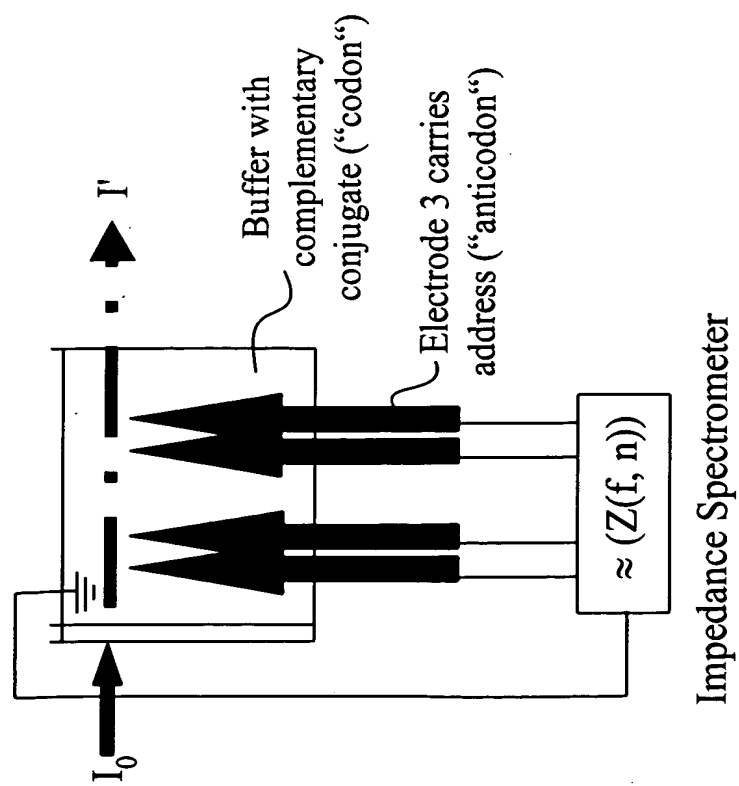


FIG. 5

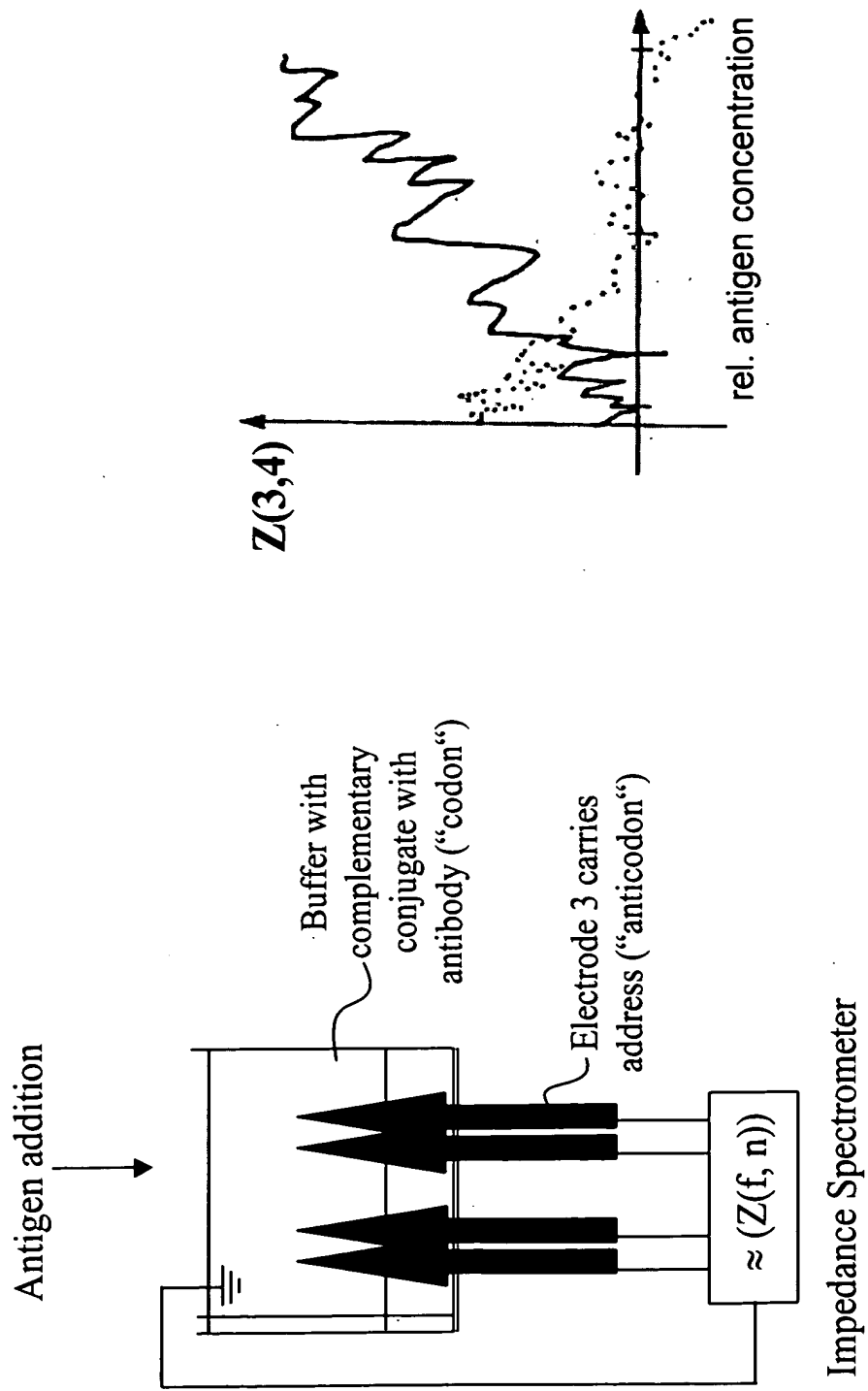


FIG. 6

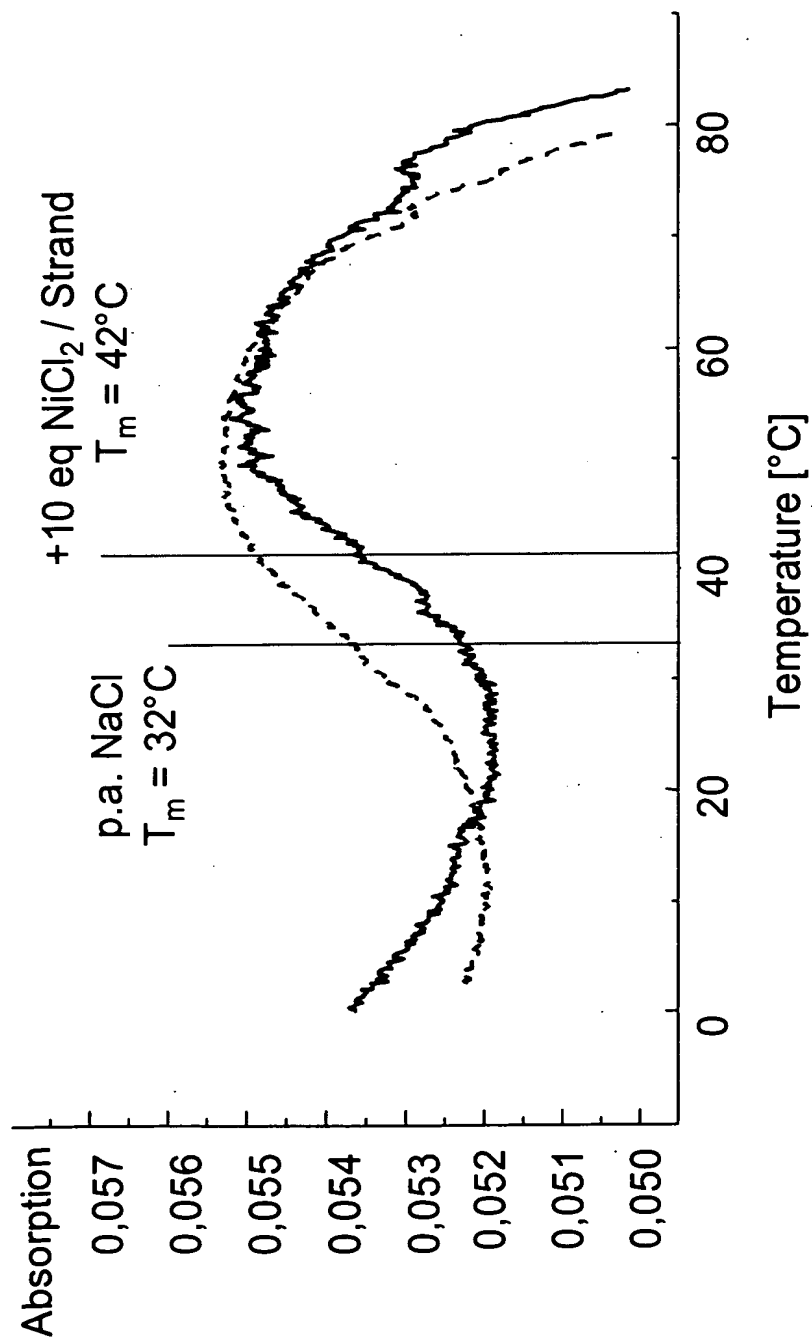
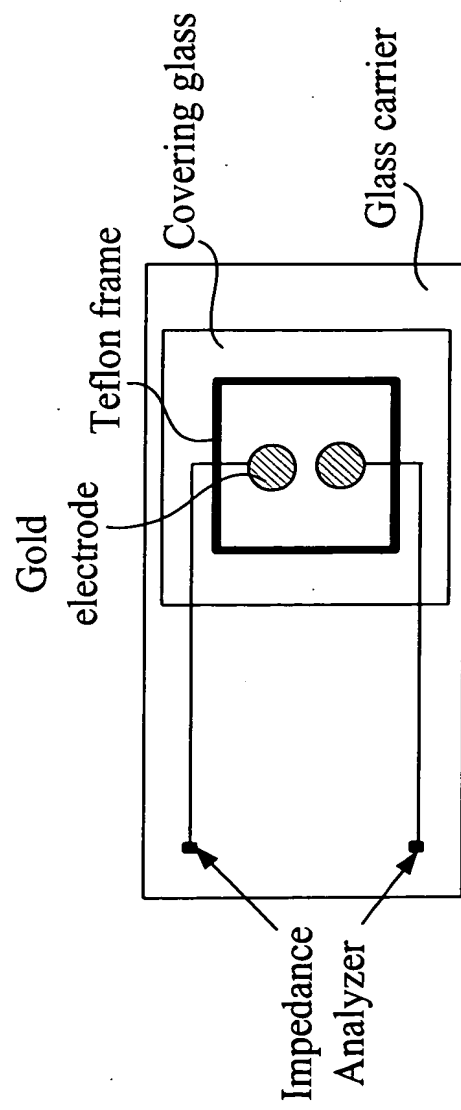


FIG. 7



**FIG. 8**



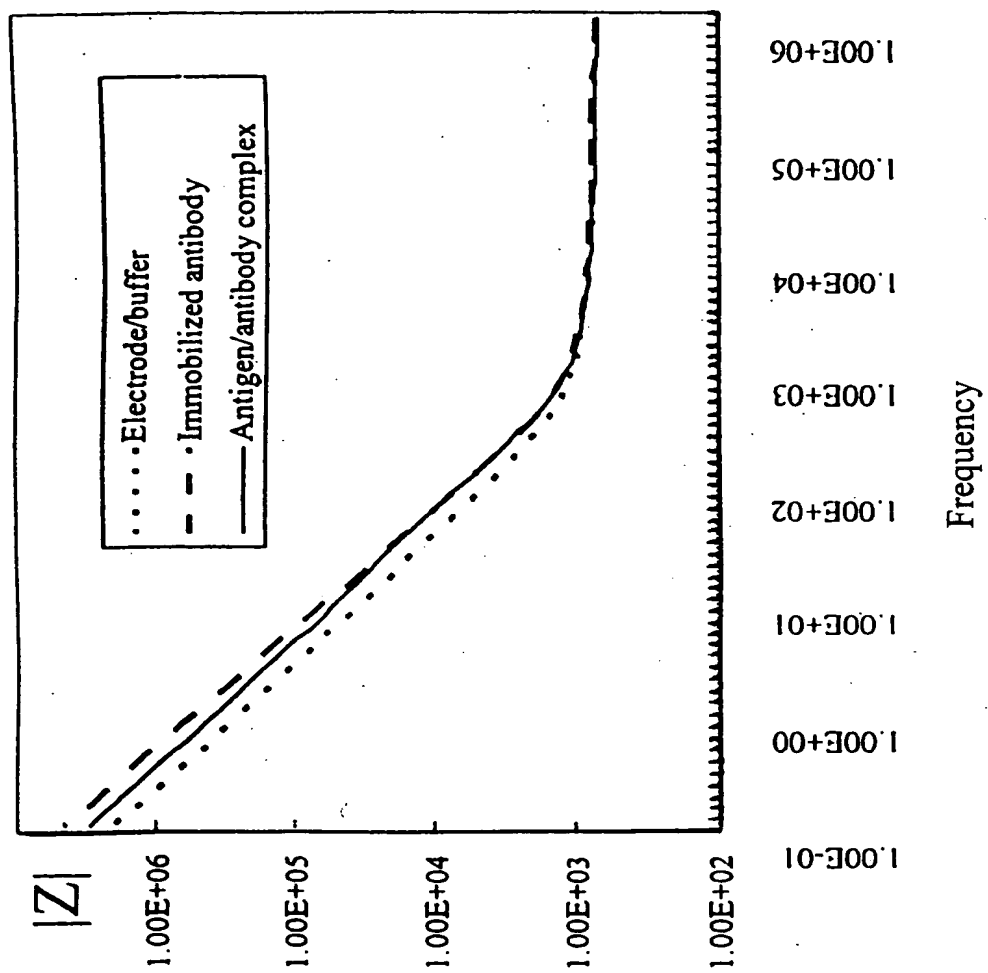
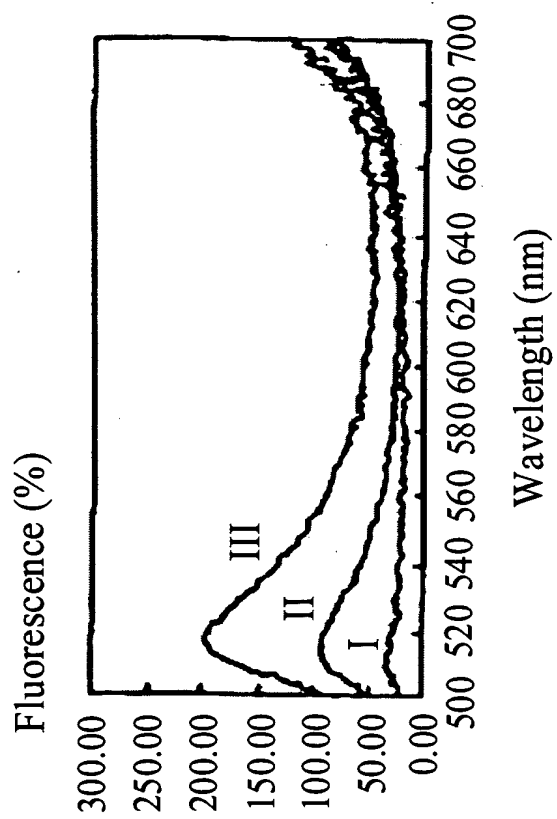


FIG. 9



- I. Electrode surface without antigen
- II. Antigen solution
- III. Addressed electrode after antigen detection

**FIG. 10**